

AMENDMENTS TO THE CLAIMS:

Listing of Claims

1. (Currently Amended) An optical system for a projection display apparatus, comprising:

a light source which provides a light beam;

a light valve which receives and reflects the light beam of said light source;

a projection lens which is arranged in the optical path of the reflection light of said light valve; ~~and~~

a prism which is arranged among said light source, said light valve, and said lens, said prism having a beveled total internal reflection surface which the light beam passes through directly to impinge onto said light valve and ~~total-reflects~~ is reflected by said light valve to said projection lens; ~~and~~

said light source is arranged adjacent to said beveled total internal reflecting surface.

2. (Currently Amended) ~~[[An]]~~ The optical system according to claim 1, wherein said prism is a straight pillar prism.

3. (Currently Amended) ~~[[An]]~~ The optical system according to claim 1, wherein said prism is a triangle pillar prism.

4. (Currently Amended) ~~[[An]]~~ The optical system according to claim 1, wherein said light source, said light valve, and said projection lens are, respectively, adjacent to different ~~surface~~ surfaces of said prism.

5. (Currently Amended) ~~[[An]]~~ The optical system according to claim 1, wherein ~~[[the]]~~ four edges of said light valve are each parallel to ~~[[the]]~~ four edges of the surface of said prism in which the surface is opposite to said light valve.

6. (Currently Amended) ~~[[An]]~~ The optical system according to claim 1, wherein a lens is arranged between said total internal reflection surface and said light source.

7. (Currently Amended) ~~[[An]]~~ The optical system according to claim 6, wherein said lens is an asymmetric lens.

8. (Currently Amended) ~~[[An]]~~ The optical system according to claim 1, wherein ~~[[a]]~~ an auxiliary prism is arranged between said total internal reflection surface and said light source, ~~which~~ and the auxiliary prism ~~[[is]]~~ has a straight pillar shape with a space apart ~~[[to]]~~ from said total internal reflection surface.

9. (Currently Amended) ~~[[An]]~~ The optical system according to claim 8, wherein said auxiliary prism has a reflection surface to reflect the light beam, which emits from said light source, enters said auxiliary prism, and impinges to said reflection surface with an incidental angle larger than the critical total reflection angle, through said prism to impinge into said light valve.

10. (Currently Amended) ~~[[An]]~~ The optical system according to claim 8, wherein said auxiliary prism has a reflection surface, through which said light beam from said light source enters said prism, is reflected by said total internal reflection surface of said prism, impinges to said light valve, which then~~[[,]]~~ reflects through said prism into said auxiliary prism, impinges with an incidental angle larger than the critical total reflection angle into said reflection surface of said auxiliary prism, and impinges

into said projection lens by total reflection of said reflection surface.

11. (New) An optical system for a projection display apparatus, comprising:
a light source which provides a light beam;
a light valve which receives and reflects the light beam of said light source;
a projection lens which is arranged in the optical path of the reflection light of said light valve;

a prism which is arranged among said light source, said light valve, and said lens, said prism having a total internal reflection surface which the light beam passes through directly to impinge onto said light valve and is reflected by said light valve to said projection lens;

a lens is arranged between said total internal reflection surface and said light source; and

said lens is an asymmetric lens.

12. (New) An optical system for a projection display apparatus, comprising:
a light source which provides a light beam;
a light valve which receives and reflects the light beam of said light source;
a projection lens which is arranged in the optical path of the reflection light of said light valve;

a prism which is arranged among said light source, said light valve, and said lens, said prism having a total internal reflection surface which the light beam passes through directly to impinge onto said light valve and is reflected by said light valve to said projection lens;

an auxiliary prism is arranged between said total internal reflection surface and said light source, which the auxiliary prism is straight pillar shape with a space apart to said total internal reflection surface; and

said auxiliary prism has a reflection surface to reflect the light beam, which emits from said light source, enters said auxiliary prism, and impinges to said reflection surface with an incidental angle larger than the critical total reflection angle, through said prism to impinge into said light valve.